

RAW SEQUENCE LISTING

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Application Serial Number: 10/028,384A
Source: 1FW16
Date Processed by STIC: 5/5/05

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IFW16

RAW SEQUENCE LISTING

DATE: 05/05/2005

PATENT APPLICATION: US/10/028,384A

TIME: 11:36:58

Input Set : A:\5600-74 Sequence Listing CRF.TXT

Output Set: N:\CRF4\05052005\J028384A.raw

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3 <110> APPLICANT: Perrault, Claude
4   McBride, Kevin
6 <120> TITLE OF INVENTION: MAMMALIAN SIMP, GENE SEQUENCE AND USES THEREOF IN CANCER
THERAPY
8 <130> FILE REFERENCE: 5600-74
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/028,384A
11 <141> CURRENT FILING DATE: 2001-12-20
13 <160> NUMBER OF SEQ ID NOS: 320
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 2481
19 <212> TYPE: DNA
20 <213> ORGANISM: Homo sapiens
22 <220> FEATURE:
23 <221> NAME/KEY: CDS
24 <222> LOCATION: (1)..(2481)
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28 Met Ala Glu Pro Ser Ala Pro Glu Ser Lys His Lys Ser Ser Leu Asn
29 1          5          10          15
31 tcg tcc ccg tgg agt ggc ctc atg gcc ctg gga aac agc cgg cac ggc      96
32 Ser Ser Pro Trp Ser Gly Leu Met Ala Leu Gly Asn Ser Arg His Gly
33          20          25          30
35 cac cac ggg ccc ggg gcc cag tgc gcg cac aag gcg gcg ggc ggc gcg      144
36 His His Gly Pro Gly Ala Gln Cys Ala His Lys Ala Ala Gly Gly Ala
37          35          40          45
39 gcg ccg ccg aag ccg gcc ccg gcg ggg ctg tcc ggg ggg ctg tcg cag      192
40 Ala Pro Pro Lys Pro Ala Pro Ala Gly Leu Ser Gly Gly Leu Ser Gln
41          50          55          60
43 ccg gct ggg tgg cag tcg ctt ctc tcc ttc acc atc ctc ttc ctg gcc      240
44 Pro Ala Gly Trp Gln Ser Leu Leu Ser Phe Thr Ile Leu Phe Leu Ala
45 65          70          75          80
47 tgg ctt gcc ggc ttc agc tcg cgc ctc ttc gcc gtc atc cgc ttc gaa      288
48 Trp Leu Ala Gly Phe Ser Ser Arg Leu Phe Ala Val Ile Arg Phe Glu
49          85          90          95
51 agc atc atc cac gag ttc gac ccg tgg ttt aac tat aga tca aca cat      336
52 Ser Ile Ile His Glu Phe Asp Pro Trp Phe Asn Tyr Arg Ser Thr His
53          100          105          110
55 cat ctt gca tct cat ggg ttc tat gaa ttt tta aat tgg ttt gat gaa      384
56 His Leu Ala Ser His Gly Phe Tyr Glu Phe Leu Asn Trp Phe Asp Glu
57          115          120          125
59 aga gca tgg tat cca cta gga aga ata gta ggt ggt act gtt tac cca      432
60 Arg Ala Trp Tyr Pro Leu Gly Arg Ile Val Gly Gly Thr Val Tyr Pro
61          130          135          140

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63	ggg ttg atg ata acc gct ggc ctt att cat tgg att tta aat aca ttg	480
64	Gly Leu Met Ile Thr Ala Gly Leu Ile His Trp Ile Leu Asn Thr Leu	
65	145 150 155 160	
67	aac ata act gtt cac ata aga gac gta tgt gtg ttc ctt gca cca act	528
68	Asn Ile Thr Val His Ile Arg Asp Val Cys Val Phe Leu Ala Pro Thr	
69	165 170 175	
71	ttt agc ggc ctt aca tct ata tct act ttc ctg ctt aca aga gaa ctt	576
72	Phe Ser Gly Leu Thr Ser Ile Ser Thr Phe Leu Leu Thr Arg Glu Leu	
73	180 185 190	
75	tgg aac caa gga gca gga ctt tta gct gct tgt ttt att gct att gta	624
76	Trp Asn Gln Gly Ala Gly Leu Leu Ala Ala Cys Phe Ile Ala Ile Val	
77	195 200 205	
79	cca ggc tac ata tct cgg tca gta gct gga tcc ttt gat aat gaa ggc	672
80	Pro Gly Tyr Ile Ser Arg Ser Val Ala Gly Ser Phe Asp Asn Glu Gly	
81	210 215 220	
83	att gct att ttt gca ctt cag ttc aca tac tat tta tgg gta aaa tct	720
84	Ile Ala Ile Phe Ala Leu Gln Phe Thr Tyr Tyr Leu Trp Val Lys Ser	
85	225 230 235 240	
87	gta aaa act ggg tca gtt ttt tgg aca atg tgc tgc tgc tta tcc tat	768
88	Val Lys Thr Gly Ser Val Phe Trp Thr Met Cys Cys Cys Leu Ser Tyr	
89	245 250 255	
91	ttc tat atg gtc tct gct tgg ggt ggt tat gta ttt atc atc aat ctt	816
92	Phe Tyr Met Val Ser Ala Trp Gly Gly Tyr Val Phe Ile Ile Asn Leu	
93	260 265 270	
95	att cca ctg cat gta ttt gtg ttg tta ctg atg cag aga tac agc aaa	864
96	Ile Pro Leu His Val Phe Val Leu Leu Leu Met Gln Arg Tyr Ser Lys	
97	275 280 285	
99	aga gtc tac ata gca tat agc act ttc tac att gtg ggt tta ata tta	912
100	Arg Val Tyr Ile Ala Tyr Ser Thr Phe Tyr Ile Val Gly Leu Ile Leu	
101	290 295 300	
103	tca atg cag ata cct ttt gtg gga ttc cag cca atc aga aca agt gaa	960
104	Ser Met Gln Ile Pro Phe Val Gly Phe Gln Pro Ile Arg Thr Ser Glu	
105	305 310 315 320	
107	cac atg gca gct gca ggt gtc ttt gca ttg ctg caa gct tat gct ttc	1008
108	His Met Ala Ala Ala Gly Val Phe Ala Leu Leu Gln Ala Tyr Ala Phe	
109	325 330 335	
111	ttg cag tat ctg aga gac cga tta aca aaa caa gag ttc cag acc ctt	1056
112	Leu Gln Tyr Leu Arg Asp Arg Leu Thr Lys Gln Glu Phe Gln Thr Leu	
113	340 345 350	
115	ttc ttt ttg ggt gta tca cta gct gca ggt gct gtg ttc ctt agt gtc	1104
116	Phe Phe Leu Gly Val Ser Leu Ala Ala Gly Ala Val Phe Leu Ser Val	
117	355 360 365	
119	atc tat ttg act tat aca ggt tac att gca cca tgg agt ggc agg ttt	1152
120	Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile Ala Pro Trp Ser Gly Arg Phe	
121	370 375 380	
123	tat tca ttg tgg gat act ggg tat gca aaa ata cac att cca att att	1200
124	Tyr Ser Leu Trp Asp Thr Gly Tyr Ala Lys Ile His Ile Pro Ile Ile	
125	385 390 395 400	
127	gca tca gtg tct gag cat caa cct acg act tgg gtg tct ttc ttc ttt	1248

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128	Ala	Ser	Val	Ser	Glu	His	Gln	Pro	Thr	Thr	Trp	Val	Ser	Phe	Phe	Phe	
129					405					410					415		
131	gat	cta	cat	att	ctt	gta	tgt	acc	ttc	cca	gca	ggc	ctt	tgg	ttc	tgc	1296
132	Asp	Leu	His	Ile	Leu	Val	Cys	Thr	Phe	Pro	Ala	Gly	Leu	Trp	Phe	Cys	
133					420					425					430		
135	atc	aaa	aat	atc	aac	gat	gaa	aga	gta	ttt	gtt	gct	cta	tat	gca	atc	1344
136	Ile	Lys	Asn	Ile	Asn	Asp	Glu	Arg	Val	Phe	Val	Ala	Leu	Tyr	Ala	Ile	
137					435					440					445		
139	agt	gct	gtc	tac	ttt	gct	gga	gtg	atg	gtg	cga	ctg	atg	ttg	act	ttg	1392
140	Ser	Ala	Val	Tyr	Phe	Ala	Gly	Val	Met	Val	Arg	Leu	Met	Leu	Thr	Leu	
141					450					455					460		
143	act	cca	gtc	gtg	tgt	atg	ctg	tct	gca	att	gcc	ttt	tca	aat	gtt	ttt	1440
144	Thr	Pro	Val	Val	Cys	Met	Leu	Ser	Ala	Ile	Ala	Phe	Ser	Asn	Val	Phe	
145	465					470					475					480	
147	gag	cac	tat	ttg	ggg	gat	gac	atg	aaa	agg	gaa	aat	cca	cct	gtg	gag	1488
148	Glu	His	Tyr	Leu	Gly	Asp	Asp	Met	Lys	Arg	Glu	Asn	Pro	Pro	Val	Glu	
149					485						490					495	
151	gac	agc	agt	gat	gag	gat	gac	aaa	aga	aac	caa	gga	aat	ttg	tat	gat	1536
152	Asp	Ser	Ser	Asp	Glu	Asp	Asp	Lys	Arg	Asn	Gln	Gly	Asn	Leu	Tyr	Asp	
153					500					505					510		
155	aag	gca	ggt	aaa	gtg	agg	aaa	cat	gca	act	gaa	cag	gaa	aaa	act	gaa	1584
156	Lys	Ala	Gly	Lys	Val	Arg	Lys	His	Ala	Thr	Glu	Gln	Glu	Lys	Thr	Glu	
157					515					520					525		
159	gag	gga	tta	ggc	cct	aat	ata	aaa	agc	att	gtc	acc	atg	ttg	atg	ctg	1632
160	Glu	Gly	Leu	Gly	Pro	Asn	Ile	Lys	Ser	Ile	Val	Thr	Met	Leu	Met	Leu	
161					530						535				540		
163	atg	cta	ttg	atg	atg	ttt	gct	gtc	cac	tgt	acc	tgg	gtc	aca	agc	aat	1680
164	Met	Leu	Leu	Met	Met	Phe	Ala	Val	His	Cys	Thr	Trp	Val	Thr	Ser	Asn	
165	545					550					555					560	
167	gcc	tac	tct	agt	cca	agt	gta	gtc	ctg	gcc	tca	tac	aat	cat	gat	ggc	1728
168	Ala	Tyr	Ser	Ser	Pro	Ser	Val	Val	Leu	Ala	Ser	Tyr	Asn	His	Asp	Gly	
169					565						570					575	
171	acc	agg	aat	atc	tta	gat	gat	ttt	aga	gaa	gct	tac	ttt	tgg	cta	agg	1776
172	Thr	Arg	Asn	Ile	Leu	Asp	Asp	Phe	Arg	Glu	Ala	Tyr	Phe	Trp	Leu	Arg	
173					580						585					590	
175	caa	aat	aca	gat	gaa	cat	gca	cga	gta	atg	tct	tgg	tgg	gat	tat	ggc	1824
176	Gln	Asn	Thr	Asp	Glu	His	Ala	Arg	Val	Met	Ser	Trp	Trp	Asp	Tyr	Gly	
177					595					600					605		
179	tat	cag	ata	gct	gga	atg	gct	aat	aga	act	acg	ttg	gtg	gat	aat	aac	1872
180	Tyr	Gln	Ile	Ala	Gly	Met	Ala	Asn	Arg	Thr	Thr	Leu	Val	Asp	Asn	Asn	
181					610						615				620		
183	acc	tgg	aat	aac	agc	cac	ata	gca	ctg	gtg	gga	aaa	gct	atg	tct	tct	1920
184	Thr	Trp	Asn	Asn	Ser	His	Ile	Ala	Leu	Val	Gly	Lys	Ala	Met	Ser	Ser	
185	625					630					635					640	
187	aat	gaa	aca	gca	gcc	tat	aaa	atc	atg	agg	act	cta	gat	gta	gat	tat	1968
188	Asn	Glu	Thr	Ala	Ala	Tyr	Lys	Ile	Met	Arg	Thr	Leu	Asp	Val	Asp	Tyr	
189					645						650					655	
191	gtt	ttg	gtt	att	ttt	gga	ggg	gtt	att	ggc	tat	tct	ggt	gat	gat	atc	2016
192	Val	Leu	Val	Ile	Phe	Gly	Gly	Val	Ile	Gly	Tyr	Ser	Gly	Asp	Asp	Ile	

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193          660          665          670
195 aac aaa ttt ctc tgg atg gtt agg ata gct gaa gga gaa cat ccc aaa      2064
196 Asn Lys Phe Leu Trp Met Val Arg Ile Ala Glu Gly Glu His Pro Lys
197          675          680          685
199 gac att cgg gaa agt gac tat ttt acc cca cag gga gaa ttc cgt gta      2112
200 Asp Ile Arg Glu Ser Asp Tyr Phe Thr Pro Gln Gly Glu Phe Arg Val
201          690          695          700
203 gac aaa gca gga tcc cct act ttg ttg aat tgc ctt atg tat aaa atg      2160
204 Asp Lys Ala Gly Ser Pro Thr Leu Leu Asn Cys Leu Met Tyr Lys Met
205 705          710          715          720
207 tca tac tac aga ttt gga gaa atg cag ctg gat ttt cgt aca ccc cca      2208
208 Ser Tyr Tyr Arg Phe Gly Glu Met Gln Leu Asp Phe Arg Thr Pro Pro
209          725          730          735
211 ggt ttt gac cga aca cgt aat gct gag att gga aat aag gac att aaa      2256
212 Gly Phe Asp Arg Thr Arg Asn Ala Glu Ile Gly Asn Lys Asp Ile Lys
213          740          745          750
215 ttc aaa cat ttg gaa gaa gcc ttt aca tca gaa cac tgg ctt gtt agg      2304
216 Phe Lys His Leu Glu Glu Ala Phe Thr Ser Glu His Trp Leu Val Arg
217          755          760          765
219 ata tat aaa gta aaa gca cct gat aac agg gag aca tta gat cac aaa      2352
220 Ile Tyr Lys Val Lys Ala Pro Asp Asn Arg Glu Thr Leu Asp His Lys
221          770          775          780
223 cct cga gtc acc aac att ttc cca aaa cag aag tat ttg tca aag aag      2400
224 Pro Arg Val Thr Asn Ile Phe Pro Lys Gln Lys Tyr Leu Ser Lys Lys
225 785          790          795          800
227 act acc aaa agg aag cgt ggc tac att aaa aat aag ctg gtt ttt aag      2448
228 Thr Thr Lys Arg Lys Arg Gly Tyr Ile Lys Asn Lys Leu Val Phe Lys
229          805          810          815
231 aaa ggc aag aaa ata tct aag aag act gtt taa      2481
232 Lys Gly Lys Lys Ile Ser Lys Lys Thr Val
233          820          825
236 <210> SEQ ID NO: 2
237 <211> LENGTH: 826
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 2
243 Met Ala Glu Pro Ser Ala Pro Glu Ser Lys His Lys Ser Ser Leu Asn
244 1          5          10          15
247 Ser Ser Pro Trp Ser Gly Leu Met Ala Leu Gly Asn Ser Arg His Gly
248          20          25          30
251 His His Gly Pro Gly Ala Gln Cys Ala His Lys Ala Ala Gly Gly Ala
252          35          40          45
255 Ala Pro Pro Lys Pro Ala Pro Ala Gly Leu Ser Gly Gly Leu Ser Gln
256          50          55          60
259 Pro Ala Gly Trp Gln Ser Leu Leu Ser Phe Thr Ile Leu Phe Leu Ala
260 65          70          75          80
263 Trp Leu Ala Gly Phe Ser Ser Arg Leu Phe Ala Val Ile Arg Phe Glu
264          85          90          95
267 Ser Ile Ile His Glu Phe Asp Pro Trp Phe Asn Tyr Arg Ser Thr His

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268		100		105		110
271	His	Leu	Ala	Ser	His	Gly
272						
275	Arg	Ala	Trp	Tyr	Pro	Leu
276						
279	Gly	Leu	Met	Ile	Thr	Ala
280	145					
283	Asn	Ile	Thr	Val	His	Ile
284						
287	Phe	Ser	Gly	Leu	Thr	Ser
288						
291	Trp	Asn	Gln	Gly	Ala	Gly
292						
295	Pro	Gly	Tyr	Ile	Ser	Arg
296						
299	Ile	Ala	Ile	Phe	Ala	Leu
300	225					
303	Val	Lys	Thr	Gly	Ser	Val
304						
307	Phe	Tyr	Met	Val	Ser	Ala
308						
311	Ile	Pro	Leu	His	Val	Phe
312						
315	Arg	Val	Tyr	Ile	Ala	Tyr
316						
319	Ser	Met	Gln	Ile	Pro	Phe
320	305					
323	His	Met	Ala	Ala	Ala	Gly
324						
327	Leu	Gln	Tyr	Leu	Arg	Asp
328						
331	Phe	Phe	Leu	Gly	Val	Ser
332						
335	Ile	Tyr	Leu	Thr	Tyr	Thr
336						
339	Tyr	Ser	Leu	Trp	Asp	Thr
340	385					
343	Ala	Ser	Val	Ser	Glu	His
344						
347	Asp	Leu	His	Ile	Leu	Val
348						
351	Ile	Lys	Asn	Ile	Asn	Asp
352						
355	Ser	Ala	Val	Tyr	Phe	Ala
356						
359	Thr	Pro	Val	Val	Cys	Met
360	465					
363	Glu	His	Tyr	Leu	Gly	Asp
364						

VERIFICATION SUMMARY

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